

ABSTRACT

The present invention: relates to a grain-oriented electrical steel sheet and a double-oriented electrical steel sheet which are used as soft magnetic materials for electrical machinery and apparatus; and is a grain-oriented electrical steel sheet extremely excellent in film adhesiveness, characterized by: containing, in mass, 2.5 to 4.5% Si, 0.01 to 0.4% Ti, and not more than 0.005% as to each of C, N, S and O, with the balance substantially consisting of Fe and unavoidable impurities; and having films comprising compounds of C with Ti or Ti and one or more of Nb, Ta, V, Hf, Zr, Mo, Cr and W on the surfaces of said steel sheet, and a method for producing the steel sheet.